



## Synthetic Roofing Underlayment

### **Shield Right Installation**

#### **4.1 General**

Installation of Shield Right / Primus Ultra underlayment must comply with the applicable code, this report and the manufacturer's published installation instructions. The installation instructions must be available at the jobsite at all times during installation.

Prior to application of Shield Right / Primus Ultra the deck surface must be dry and free of dust, dirt, loose nails and other protrusions. Damaged sheathing must be repaired or replaced.

#### **4.2 Application**

Shield Right / Primus Ultra underlayment should be installed printed side up and horizontal (parallel) to the eave, starting at the lowest eave point. Metal drip edge should be placed under Shield Right / Primus Ultra at the eave and over Shield Right / Primus Ultra along the rake edge. If eave metal will be installed after the underlayment is applied, the first row of fasteners should be placed 3-inches (76 mm) up from the eave so that the metal edging can be slipped under the underlayment before nailing.

Horizontal head laps are 4-inches (102 mm) running with the flow of water in a shingle fashion. Vertical end laps are 6-inches (152 mm).

Shield Right / Primus Ultra underlayment may be installed using standard roofing nails having a 3/8-inch (9.5 mm) diameter head. Low profile plastic or metal cap nails with 1-inch (25.4 mm) caps may be used when preferred or

required by local codes. Fasteners should be long enough to penetrate through the sheathing or a minimum of  $\frac{3}{4}$  inch (19.1 mm) into solid decking.

For standard application, fasteners are spaced 12-inches (305 mm) along the top, bottom and side laps and 24-inches (610 mm) along two rows staggered and spaced  $\frac{1}{3}$  and  $\frac{2}{3}$  up into the field of the underlayment.

If Shield Right / Primus Ultra will be left exposed for more than three days or if severe weather is predicted before shingles will be installed, fasteners should be spaced 6-inches (153 mm) along the top, bottom and side laps and 12-inches (305 mm) along two rows staggered and spaced  $\frac{1}{3}$  and  $\frac{2}{3}$  up into the field of the underlayment. The correct fastener placement is clearly marked on the surface of Shield Right / Primus Ultra underlayment.

In areas subject to high winds, underlayment fastening must comply with the high-wind attachment requirements specified in IBC Section 1507 or IRC Section R905